



TECHNICAL SERVICE BULLETIN

10R80 – Illuminated MIL With DTC P163E After Main Control Valve Body Replacement

21-2423
30 November
2021

Model:

Ford 2018-2021 Expedition	Transmission/Transaxle: 10R80
2018-2020 F-150	Transmission/Transaxle: 10R80
2018-2020 Mustang	Transmission/Transaxle: 10R80
2019-2021 Ranger	Transmission/Transaxle: 10R80
Lincoln 2018-2021 Navigator	Transmission/Transaxle: 10R80

Issue: Some 2018-2021 Expedition/ Navigator, 2018-2020 F-150/Mustang and 2019-2021 Ranger vehicles equipped with a 10R80 automatic transmission may exhibit an illuminated malfunction indicator lamp (MIL) with diagnostic trouble code (DTC) P163E stored in the powertrain control module (PCM) or transmission control module (TCM) after replacing the main control valve body. This may be due to software incompatibility between the replacement main control valve body solenoid strategy file and the PCM/TCM software. To correct this condition, follow the Service Procedure to obtain a new main control valve body with a new strategy number.

Action: Follow the Service Procedure steps to correct the condition that meet all of the following criteria:

- One of the following vehicles:
 - 2018-2021 Expedition/ Navigator
 - 2018-2020 F-150/Mustang
 - 2019-2021 Ranger
- Equipped with 10R80 transmission
- Illuminated MIL with DTC P163E stored in the PCM or TCM after main control valve body replacement

Parts

Service Part Number	Quantity	Description
HL3Z-7A100-B	1	Transmission Main Control Valve Body (2017 F-150)
JL3Z-7A100-C	1	Transmission Main Control Valve Body (Expedition with column shift, Ranger, 2018-2020 F-150)
JL1Z-7A100-A	1	Transmission Main Control Valve Body (Expedition with rotary gear shift knob, Navigator)
JL3Z-7A100-B	1	Transmission Main Control Valve Body (2018-2020 Mustang)
XT-12-QULV	As Needed	MERCON® ULV Automatic Transmission Fluid

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

Parts

Parts To Inspect And Replace Only If Necessary

Service Part Number	Quantity	Description	Unit of Issue	Piece Quantity
HL3Z-7A191-B	If Needed	Transmission Oil Pan Gasket		

W520113-S440	If Needed	Stabilizer Bar Bracket Nuts	4	4 Maximum
W715131-S437	If Needed	Transmission Fluid Cooler Tube Bolts	4	2 Maximum

Quantity refers to the amount of the service part number required to repair the vehicle.

Unit of Issue refers to the number of individual pieces included in a service part number package.

Piece Quantity refers to the total number of individual pieces required to repair the vehicle.

If Needed indicates the part is not mandatory.

Unit of Issue and Piece Quantity are 1 unless otherwise stated.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Special Service Part (SSP)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SSP/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2019-2021 Ranger: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423A	2.4 Hrs.
2018-2020 Mustang: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423B	2.4 Hrs.
2018-2021 Expedition/Navigator: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423C	3.2 Hrs.
2018-2020 F-150 2.7L EcoBoost: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423D	3.0 Hrs.
2018-2020 F-150 3.0L Diesel: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423E	2.6 Hrs.
2018-2020 F-150 3.5L EcoBoost: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423F	3.1 Hrs.
2018-2020 F-150 4X2 5.0L: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423G	3.2 Hrs.
2018-2020 F-150 4X4 5.0L: Retrieve DTCs, Program The Strategy Numbers From New Main Control Valve Body (Pass) Install New Main Control Valve Body (Do Not Use With Any Operation Outside Of This Article)	212423H	3.4 Hrs.
Additional Time To Program The Strategy Numbers From A Second Main Control Valve Body If Necessary (Can Be Claimed With Operation A-H)	212423J	0.2 Hrs.
Additional Time To Program The Strategy Numbers From A Third Or More Main Control Valve Body If Necessary (Can Be Claimed With Operation A-J)	MT212423	Actual Time

Repair/Claim Coding

Causal Part:	7A100
Condition Code:	42

Service Procedure

- Obtain a new main control valve body to get the strategy number. Do not install the main control valve body at this time.
 - Do not use the same replacement main control valve body if repeating the article from Step 3.

2. Prior to installing the new main control valve body, clear the DTC and program only the strategy number from the new main control valve body. Refer to Workshop Manual, Section 307-01 for transmission strategy download procedures.
3. Set the ignition to OFF and start the vehicle. Did DTC P163E return?
 - (1). Yes - do not install the replacement main control valve body. Repeat this article from Step 1.
 - (2). No - continue with installing the replacement main control valve body.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.